# Nour Siwar

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## EDUCATION

**University of California, Irvine**      Graduation: March 2026
Bachelor of Science in Computer Science, GPA: 3.8      Irvine, CA
Elective Coursework: Formal Languages and Automata — Principles of Operating Systems — Design and Analysis of Algorithms — Software Testing, Analysis, and Quality Assurance — Introduction to Data Management

## EXPERIENCE

**Software Development Engineer Intern**      June 2025 – September 2025
**Amazon — Amazon Web Services (AWS)**      Santa Monica, CA
- Constructed, and deployed a full-stack automated assistant using **Java**, **TypeScript**, **React**, and **AWS: Lambda, API Gateway, CloudWatch, Simple Notification Service (SNS), DynamoDB, Cloud Development Kit (CDK)** to effectively and efficiently mitigate on-call tickets for the Managed Streaming Kafka (MSK) team.
- Authored a design document evaluating alternative architectures (e.g., direct Lambda vs. SNS-triggered) and edge cases (e.g., flaky alarms, repeated executions), while scoping feature extensions and maintaining security controls.

**Android Engineer**      March 2025 – Present
**UC Irvine Student Center Events & Services**      Remote
- Guide cross-functional debugging efforts with design, web, and iOS teams to resolve long-standing issues, including integrating mobile authentication, refactoring ticketing system, and overhauling commonly used applications
- Lead the initiative to modernize ZotFinder and UCINow on Android and iOS; migrate codebases to Swift & SwiftUI and **Kotlin & Jetpack Compose**, implement new features, and publish the applications on both the App Store and Google Play Store

**Android Product Engineer Intern**      June 2024 – September 2024
**ESRI (Environmental Systems Research Institute, Inc.)**      Redlands, CA
- Refactored ArcGIS Maps SDK Sample Viewer's Jetpack Compose and Kotlin, utilizing concepts of **Kotlin Flows**, **SharedViewModel**, **Preferences DataStore**, and using 3rd party libraries such as Coil, improving app's maintainability and responsiveness
- Migrated ArcGIS Maps SDK sample tutorial projects to Kotlin and Jetpack Compose, following the **MVVM** architecture, enabling 200,000 users to learn more about the SDK. Sample tutorials include: Find Closest Facility from Point and Generate Offline Map

**Android Software Engineer Intern**      January 2024 – April 2024
**SiriusXM**      Remote
- Designed and implemented a feature to showcase SiriusXM content externally using **WorkManager**, batch processing, and a **BroadcastReceiver** for real-time updates via the Google Engage SDK.
- Documented architecture, resolved stale data issues with **Charles Proxy**, JSON mocks, and unit tests, and presented the feature to 50+ stakeholders to support personalized content discovery and growth.

## PROJECTS

**EyeD** | *Kotlin, Jetpack Compose, Room, SQL, CameraX, Trello, MVVM*      July 2023 - July 2025
- Lead Android and Web development efforts in a cross-platform team of 10+ (Android, iOS, Web, and AI), coordinating workflows using **Trello** to ensure consistent progress and alignment across all teams
- Integrate local QR code data storage using **Room** and **SQL**, enabling offline access and clear display of doctor instructions to assist elderly patients
- Migrate UI from legacy **XML** to **Jetpack Compose**, applying the **MVVM** architecture to boost maintainability and streamline feature development

**Chordinate** | *Spotify SDK, ArcGIS Maps SDK for Kotlin, ArcGIS Online*      June 2024 - July 2024
- Built a location-aware music trend app in a team of 5 to visualize what users nearby are listening to in real-time
- Implemented **Spotify authentication**, live track aggregation via **BroadcastReceiver**, and geospatial visualization using **ArcGIS Maps SDK for Kotlin** and **ArcGIS Online**

## TECHNICAL SKILLS

**Languages**: Kotlin, Jetpack Compose, XML, C, C++, Java, SQL, Python, React, TypeScript
**Tools**: AWS, Android SDK, Dagger, Postman API, Charles Proxy, PostgreSQL, Git, JUnit, Firebase, Jira, Trello